



USPTO

[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
Search: ☒ The ACM Digital Library ☐ The Guide

Searching within The ACM Digital Library with Advanced Search: (ipv6 and extension and header and caching) ([start a new search](#))

Found 21 of 239,255

REFINE YOUR SEARCH

Search Results

Related Journals

Related SIGs

Related Conferences

▼ Refine by Keywords

Discovered Terms

▼ Refine by People

[Names](#)
[Institutions](#)
[Authors](#)
[Reviewers](#)

▼ Refine by Publications

[Publication Year](#)
[Publication Names](#)
[ACM Publications](#)
[All Publications](#)
[Content Formats](#)
[Publishers](#)

▼ Refine by Conferences

[Sponsors](#)
[Events](#)
[Proceeding Series](#)

Results 1 - 20 of 21

Sort by relevance

in

[Save results to a Binder](#)1 [Ariadne: a secure on-demand routing protocol for ad hoc networks](#) [Yih-Chun Hu, Adrian Perrig, David B. Johnson](#)

September 2002 MobiCom '02: Proceedings of the 8th annual international Mobile computing and networking

Publisher: ACM

Full text available: [Pdf](#) (308.15 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 144, Citations

a secure on-demand routing protocol for ad hoc networks.

Keywords: ad hoc network routing, routing, security

2 [Topology discovery for public IPv6 networks](#) [Daniel G. Waddington, Fangzhe Chang, Ramesh Viswanathan, Bin Yao](#)

July 2003 SIGCOMM Computer Communication Review, Volume 33 Issue

Publisher: ACM

Full text available: [Pdf](#) (182.34 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 156, Citations

In just three decades the Internet has grown from a small experimental into a complex network of routers, switches, and hosts. Understanding such large scale networks is essential to the procurement of good architectures.

Keywords: IPv6, IPv6 network topology discovery, network measurement probing, topology inference

3 [Routing with a clue](#) [Anat Bremler-Barr, Yehuda Afek, Sarel Har-Peled](#)

August 1999 SIGCOMM '99: Proceedings of the conference on Applications architectures, and protocols for computer communication

Publisher: ACM

Full text available: [Pdf](#) (1.26 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 22, Citations

ADVANCED SEARCH

[Advanced Search](#)

FEEDBACK

[Please provide us with feedback](#)

Found 21 of 239,255

We suggest a new simple forwarding technique to speed-up IP destination lookup. The technique is a natural extension of IP, requires 5 bits in the IP header (IPv6) and performs IP lookup nearly as fast as IP/Tag-switching but with less overhead.

Also published in:

October 1999 SIGCOMM Computer Communication Review Volume 29 Issue 4

4 [IPNL: A NAT-extended internet architecture](#)



[Paul Francis](#), [Ramakrishna Gummadi](#)

August 2001 SIGCOMM '01: Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communication

Publisher: ACM

Full text available: [Pdf](#) (241.65 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 110, Citation (6 Weeks): 0, Citation (12 Months): 0

This paper presents and analyzes IPNL (for IP Next Layer), a NAT-extended protocol architecture designed to scalably solve the address depletion problem. The NAT-extended architecture is one where only hosts and NAT boxes are involved in the forwarding process.

Also published in:

October 2001 SIGCOMM Computer Communication Review Volume 31 Issue 4

5 [A web-based resource migration protocol using WebDAV](#)



[Michael Evans](#), [Steven Furell](#)

May 2002 WWW '02: Proceedings of the 11th international conference on World Wide Web

Publisher: ACM

Full text available: [Pdf](#) (296.85 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 35, Citation (6 Weeks): 0, Citation (12 Months): 0

The web's hyperlinks are notoriously brittle, and break whenever a resource's location changes. A solution to this problem is a transparent resource migration mechanism that separates a resource's location from its identity, and helps provide referential integrity.

Keywords: WebDAV, link rot, referential integrity, resource locator service, migration protocol, web

6 [Multicast support for mobile hosts using mobile IP: design issues and architecture](#)

[Vineet Chikarmane](#), [Carey L. Williamson](#), [Richard B. Bunt](#), [Wayne L. Mackris](#)

December 1998 Mobile Networks and Applications, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [Pdf](#) (268.04 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 92, Citation (6 Weeks): 0, Citation (12 Months): 0

In this paper, we consider the problem of providing multicast to mobile hosts. Providing multicast in an internetwork with mobile hosts is made difficult because many multicast protocols are inefficient when the network topology changes frequently.

7

[T/TOP: TOP for transactions](#)

Mark Ivan Griffin, John Nelson

February 2000 *Linux Journal* , Volume 2000 Issue 70es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [Html](#) (25.32 KB) Additional Information: [full citation](#), [abstract](#), [refere](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 16, Citation (

A discussion of the operation,

8 Linux WAN Routers

Tony Mancill

June 1998 *Linux Journal* , Volume 1998 Issue 50es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [Html](#) (26.69 KB) Additional Information: [full citation](#), [abstract](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 12, Citation (

Musings of a Network Administrator: Another great use for Linux; Mr. M
his company picked Linux routers over the big names

9 IP switching—ATM under IP

Peter Newman, Greg Minshall, Thomas L. Lyon

April 1998 *IEEE/ ACM Transactions on Networking (TON)* , Volume 6 Issue

Publisher: IEEE Press

Full text available:  [Pdf](#) (154.32 KB) Additional Information: [full citation](#), [references](#), [cite](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 64, Citation

Keywords: Internet protocol, asynchronous transfer mode, broadband
communication system control, data communication, packet switching,

10 Routing with a clue

Yehuda Afek, Anat Bremler-Barr, Sarel Har-Peled

December 2001 *IEEE/ ACM Transactions on Networking (TON)* , Volume

Publisher: IEEE Press

Full text available:  [Pdf](#) (227.57 KB) Additional Information: [full citation](#), [abstract](#), [refere](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 33, Citation (

We suggest a new simple forwarding technique to speed up IP destinati
The technique is a natural extension of IP, requires 5 bits in the IP heac
IPv6), and performs IP lookup nearly as fast as IP/Tag switching but wil


Keywords: Best matching prefix, IP forwarding, IP lookup, IP routing, I

11 A query scope agent for flood search routing protocols

John Sucec, Ivan Marsic

November 2003 *Wireless Networks* , Volume 9 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf](#) (289.73 KB) Additional Information: [full citation](#), [abstract](#), [refere](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 34, Citation (

Flood-search on-demand routing has received considerable interest for i

mobile ad hoc networks. To alleviate the effects of flooding the network packets to discover a route, the concept of an expanding ring search (E

Keywords: flood search, mobile ad hoc network, on-demand routing

12 [Mobile networking in the Internet](#)



[Charles E. Perkins](#)

December 1998 *Mobile Networks and Applications* , Volume 3 Issue 4

Publisher: ACM

Full text available: [Pdf](#) (166.90 KB) Additional Information: [full citation](#), [abstract](#), [refere terms](#)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 241, Citation (

Computers capable of attaching to the Internet from many places are lil popularity until they dominate the population of the Internet. Consequence research has shifted into high gear to develop appropriate network prot

13 [Contact networking: a localized mobility system](#)



[Casey Carter](#), [Robin Kravets](#), [Jean Tourrilhes](#)

May 2003 *MobiSys '03: Proceedings of the 1st international conference on applications and services*

Publisher: ACM

Full text available: [Pdf](#) (232.79 KB) Additional Information: [full citation](#), [abstract](#), [refere terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 48, Citation (

MobileIP, the standard for Internet mobility, enables transparent mobility node, but requires communication to take a multihop path through the Agent. Although a user with a multiple-interface mobile node may desire

14 [Router plugins: a software architecture for next-generation routers](#)

[Dan DeCasper](#), [Zubin Dittia](#), [Guru Parulkar](#), [Bernhard Plattner](#)

February 2000 *IEEE/ ACM Transactions on Networking (TON)* , Volume 8

Publisher: IEEE Press

Full text available: [Pdf](#) (530.34 KB) Additional Information: [full citation](#), [references](#), [cite](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 93, Citation (

Keywords: communication system routing, communication system security, modular computer systems

15 [Host Mobility Using an Internet Indirection Infrastructure](#)



[Shelley Zhuang](#), [Kevin Lai](#), [Ion Stoica](#), [Randy Katz](#), [Scott Shenker](#)

May 2003 *MobiSys '03: Proceedings of the 1st international conference on applications and services*

Publisher: ACM


Full text available: [Pdf](#) (421.23 KB) Additional Information: [full citation](#), [references](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 26, Citation (

16 [Network layer access control for context-aware IPv6 applications](#)

[Adrian Friday](#), [Maomao Wu](#), [Joe Finney](#), [Stefan Schmid](#), [Keith Cheverst](#), [Nick](#)
July 2003 *Wireless Networks* , Volume 9 Issue 4

Publisher: Kluwer Academic Publishers


Full text available:  Pdf (3.57 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 120, Citation

As part of the Lancaster GUIDE II project, we have developed a novel w protocol designed to support the development of next generation mobile applications in our local environs. Once deployed, this architecture will .


Keywords: authentication, mobile IPv6, public access point, security, v

17 [Internet mobility 4x4](#)

 [Stuart Cheshire](#), [Mary Baker](#)

August 1996 SIGCOMM '96: Conference proceedings on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  Pdf (208.28 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 49, Downloads (12 Months): 141, Citation

Mobile IP protocols allow mobile hosts to send and receive packets addressed to their home network IP address, regardless of the IP address of their current location in the Internet. While some recent work in Mobile IP focuses on a couple

Also published in:

October 1996 SIGCOMM Computer Communication Review Volume 26 Issue

18 [Intelligent handoff for mobile wireless internet](#)

[Jon Chung-Shien Wu](#), [Chieh-Wen Cheng](#), [Gin-Kou Ma](#), [Nen-Fu Huang](#)

January 2001 Mobile Networks and Applications , Volume 6 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  Pdf (223.56 KB) Additional Information: [full citation](#), [references](#), [cite](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 83, Citation (


Keywords: mobile internet, wireless data networks, wireless internet

19 [Fast address lookups using controlled prefix expansion](#)

 [V. Srinivasan](#), [G. Varghese](#)

February 1999 Transactions on Computer Systems (TOCS) , Volume 17 Issue 1

Publisher: ACM

Full text available:  Pdf (258.60 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 182, Citation


Internet (IP) address lookup is a major bottleneck in high-performance network lookup is challenging because it requires a longest matching prefix lookup compounded by increasing routing table sizes, increased traffic, ...

Keywords: Internet address lookup, binary search on levels, controlled prefix expansion, longest-prefix match, multibit tries, router performance

20 [IP lookups using multiway and multicolumn search](#)[Butler Lampson, Venkatachary Srinivasan, George Varghese](#)

June 1999 IEEE/ ACM Transactions on Networking (TON) , Volume 7 Issue

Publisher: IEEE Press

Full text available:  [Pdf](#) (173.06 KB) Additional Information: [full citation](#), [references](#), [cite review](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 61, Citation

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2008 ACM, Inc

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)